DAMES & MOORE A PROFESSIONAL LIMITED PARTNERSHIP

1846 HOFFMAN STREET, SUITE 101, MADISON, WISCONSIN 53704 (608) 244-1788

July 28, 1989

90-890000580

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office

Ladies and Gentlemen:

Please find attached the completed CAIR reporting form for the following Woodbridge facility:

Woodbridge Corporation 11 Cermak Road St. Peters, MO 63376

The applicable reporting deadline for this facility is August 4, 1989 as mentioned in the extension letter received from EPA dated July 12, 1989.

Sincerely,

DAMES & MOORE

John S. Flickinger

S. Flickinger SIK

Associate

Jeffrey M. Jaeckels Chemical Engineer

Attachments

I &EPA

Form Approved OMB No. 2010-0019 Approval Expires 12-31-89

000611444K

90-890000580

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

018 8 AH 9: 05

hen completed, send this form to:

Document Processing Center

ffice of Toxic Substances, TS-790

.S. Environmental Protection Agency
401 M Street, SW

ashington, DC 20460

ttention: CAIR Reporting Office

Date of Receipt: ______

Document
Control Number: _____

Docket Number:

For Agency Use Only:

PA Form 7710-52

		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A G	SENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	соп	pleted in response to the <u>Federal Register Notice of $[\frac{1}{1}]$ $[\frac{1}{2}]$ $[\frac{1}{2}]$ $[\frac{1}{2}]$ $[\frac{1}{2}]$ $[\frac{1}{2}]$ $[\frac{1}{2}]$</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the $\underline{\sf Federal}$
		<u>Register</u> , list the CAS No [_]2]2]2]2]2]-[<u>6</u>]2]-[<u>5</u>]
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]-[_]]-[_]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI		ufacturer
 1		orter
·,		cessor
		manufacturer reporting for customer who is a processor
		processor reporting for customer who is a processor
	21,7 2	processor reporting for customer and is a processor to the continuous continuous and in the continuous continu

CONTAINS NO CBI

1.03		stance you are reporting on have an "x/p" designati-listed Federal Register Notice?	on associated with it
CBI	Yes] Go to question 1.04
(<u></u> J	No	[_] Go to question 1.05
1.04	under a	anufacture, import, or process the listed substance trade name(s) different than that listed in the Fedhe appropriate response.	and distribute it eral Register Notice?
CBI		••••••	
· 1	No	•••••••••••••••••••••••••••••••••••••••	
	b. Check th	e appropriate box below: 19/2	
	[<u> </u>] Yo	u have chosen to notify your customers of their repo	orting obligations
	Pr	ovide the trade name(s)	
	[<u> </u>	have chosen to report for your customers	2004
	da	n have submitted the trade name(s) to EPA one day at te of the rule in the <u>Federal Register</u> Notice under porting.	fter the effective
1.05 CBI	reporting re	trade name product and are reporting because you we quirements by your trade name supplier, provide that	ere notified of your trade name.
[_]		name product a mixture? Circle the appropriate res	nonse
	Yes		
	No		
	NO	••••••	
1.06	Certification sign the cert	The person who is responsible for the completion ification statement below:	n of this form must
CBI [\subseteq]	entered on the	tify that, to the best of my knowledge and belief, is form is complete and accurate."	. 1
	Mary J	Valderrama Ma Valdenaum	7 2 90
	John Brock	NAME NAME Signature SNO: romade Affects (314) 279 - 1002 ITLE TELEPHONE NO.	DATE SIGNED
[_]	ark (X) this	box if you attach a continuation sheet.	

1.07 <u>CBI</u> []	Exemptions From Reporting with the required informatio within the past 3 years, and for the time period specifie are required to complete sec now required but not previou submissions along with your	n on a CAIR this infor d in the ru tion 1 of t sly submitt	Reporting Form for the mation is current, accur le, then sign the certif his CAIR form and provided. Provide a copy of a	listed substance ate, and complete ication below. You be any information
	"I hereby certify that, to t information which I have not to EPA within the past 3 yea period specified in the rule	included i rs and is c	n this CAIR Reporting Fo	rm has been submitted
	NAME		SIGNATURE	DATE SIGNED
		(_	
	TITLE		TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u> []	CBI Certification If you is certify that the following so those confidentiality claims "My company has taken measure and it will continue to take been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial information is not publicly a would cause substantial harm	tatements to which you have es to protect these meast le by other than disco proceeding available es	ruthfully and accurately nave asserted. It the confidentiality oures; the information is persons (other than govovery based on a showing) without my company's clsewhere; and disclosure	f the information, not, and has not ernment bodies) by of special need in onsent; the of the information
	NAME		SIGNATURE	DATE SIGNED
	TITLE	(

CORPORATE DATA
cility Identification
me [[[]]]]]]]]]][[]][]]]]]]]]]]]]]]]]]]]
[S]]]][][][][][][][][][][][][][][][][][
[<u>A]</u> 0] [<u>Z</u>]3]3] <u>7</u>][<u>]</u>]_] State
A ID Number
pany Headquarters Identification
ne [<u>[w][0][0][N][8][7][0][0][0][0][0][0][0][0][0][0][0][0][0]</u>
[ア]4] [7]8]9]9][]] State Zip & Bradstreet Number
loyer I

1.11 Parent Company Ide	ntification
[] Address [刊 <u>]</u>] 9 Sujne 3 [<u>例</u>] <u>ブ</u>] ☆ GA 7年Rig	Street
1.12 Technical Contact	
Address [7]]	_ V # Z D & Z R # # Z
Telephone Number .	[<u> </u>
1.13 This reporting year	r is from $[\overline{/}] \overline{/}] [\overline{/}] \overline{/}]$ to $[\overline{/}] \overline{/}] [\overline{/}] \overline{/}]$ Year
[_] Mark (X) this box i	f you attach a continuation sheet.

A	1	
	1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
å	CBI	Name of Seller [_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]
	[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]
		[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
		[_]_] [_]_]_]_]_]_]_]]_]]]]]]]]]
		Employer ID Number
		Date of Sale
		Contact Person [_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]
		Telephone Number
	1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
	CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]
	ıı	Street
		[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] Ci ty
		[_]_] [_]_]_]]]_]_]_]_]]_]]_]]]]]]]]
		Employer ID Number
		Date of Purchase
li		Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
		Telephone Number
	[<u></u>] M	Mark (X) this box if you attach a continuation sheet.
1		

(<u> </u>	Classification Sanufactured Imported Processed (include quantity repackaged)	,
:	Imported	,
:		· <u>NA</u>
	Processed (include quantity repackaged)	
(1,49 million
	of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	NA
	For on-site use or processing	<i>*</i>
	For direct commercial distribution (including export)	/
	In storage at the end of the reporting year	4,
(of that quantity processed, report that quantity:	i
·	In storage at the beginning of the reporting year	0.14 muzica
	Processed as a reactant (chemical producer)	1 .
		, ,
	Processed as a formulation component (mixture producer)	3
	Processed as an article component (article producer)	g.
	Repackaged (including export)	<i>F</i> '
	In storage at the end of the reporting year	<u> 76, 800 </u>

or a component of chemical. (If t	dixture If the listed substance on which you are required to report is a mixture or a component of a mixture, provide the following information for each component hemical. (If the mixture composition is variable, report an average percentage of each component chemical for all formulations.)					
Compon Nam		Supplier Name	Compositi (specify	Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%)		
<u> </u>		N/4		<i>h</i>		
	-					
			Total	100%		

2.04	State the quantity of the listed substance that your facility manuor processed during the 3 corporate fiscal years preceding the representation of the descending order.	
CBI		
[_]	Year ending	\cdots $[\overline{/}] \overline{\bigcirc}]$ $[\overline{\otimes}] \overline{\cancel{7}}]$ $\overline{\text{Year}}$
	Quantity manufactured	kg
	Quantity imported	<i>N</i> /4 kg
	Quantity processed	<u> </u>
	Year ending	[<u>↓]</u>] [<u>↓</u>] Mo. [<u>↓</u>] <u> </u>
	Quantity manufactured	<u> </u>
	Quantity imported	k //4 kg
	Quantity processed	kg
	Year ending	[_]_] [_]_] Mo. Year
	Quantity manufactured	kg
	Quantity imported	kg
	Quantity processed	kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all
[_]	Continuous process	1
	Semicontinuous process	
	Batch process	_
	Daten process	3
[_]	Mark (X) this box if you attach a continuation sheet.	

CBI	appropriate process t	ypes.		Circle all	
[_]	Combinuous nuosess				
	Continuous process .				
	Semicontinuous process	S		•••••••••••••••••••••••••••••••••••••••	
	Batch process			•••••	
2.07 <u>CBI</u>	State your facility's substance. (If you and question.)				
[_] Manufacturing capacity					
			·	· · · · · · · · · · · · · · · · · · ·	
	Processing capacity .	••••••		215 MYLLEW kg/y	
2.08 CBI	If you intend to incre manufactured, imported year, estimate the inc volume.	l, or processed at any	time after your curi	rent corporate fiscal	
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)	
[_]	Amount of increase				
	Amount of increase Amount of decrease	Quantity (kg)	Quantity (kg)	Quantity (kg)	
<u></u>		Quantity (kg)	Quantity (kg)	Quantity (kg) None RANNER	
		Quantity (kg)	Quantity (kg)	Quantity (kg) None RANNER	
		Quantity (kg)	Quantity (kg)	Quantity (kg) None RANNER	
		Quantity (kg)	Quantity (kg)	Quantity (kg) None RANNER	
		Quantity (kg)	Quantity (kg)	Quantity (kg) None Range	
		Quantity (kg)	Quantity (kg)	Quantity (kg) None Range	
		Quantity (kg)	Quantity (kg)	Quantity (kg) None RANNER	
		Quantity (kg)	Quantity (kg)	Quantity (kg) About RANDER	
		Quantity (kg)	Quantity (kg)	Quantity (kg) None RANNER	
		Quantity (kg)	Quantity (kg)	Quantity (kg) About RANDER	

2.09	listed substand substant	largest volume manufacturing or processing procese, specify the number of days you manufactured ag the reporting year. Also specify the averages type was operated. (If only one or two operated)	or processed number of h	the listed nours per
CBI				
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	N/4	NA_
		Processed	<u>240</u>	21.5
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)	,	
		Manufactured	NA	<u>NA</u>
		Processed	240	2/5
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)	i	1
		Manufactured		
		Processed	$\frac{1}{2}$	<u></u>
2.10 <u>CBI</u>		um daily inventory and average monthly inventory was stored on-site during the reporting year in	of the list	ted a bulk
	Maximum daily in	nventory		kg
		inventory		
[-]	Mark (X) this bo	x if you attach a continuation sheet.		

	14 A	Byproduct,	Concentration (%) (specify ±	Source of products, products,
CAS No.	Chemical Name	Coproduct or Impurity	% precision)	Impuritie

C = Coproduct I = Impurity				

a.	b. % of Quantity	c.	d.
Product Types ¹	Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
	17%		Z
Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequestrant G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive and additives 2 Use the following codes to designate the t I = Industrial CS = Consu		L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify) type of end-users:	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier

a.	b.	c.	d.
	% of Quantity Manufactured,	% of Quantity	
Product Types ¹	Imported, or Processed	Used Captivel On-Site	y Type of End-User
	150%	- <u>- </u>	7

 ¹ Use the following code	s to designate prod	luct types:	· · · · · · · · · · · · · · · · · · ·
 A = Solvent	s to designate prod	L = Moldable/Casta	able/Rubber and additi
 A = Solvent B = Synthetic reactant		L = Moldable/Casta M = Plasticizer	
 <pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer</pre>	/Accelerator/	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F	
 <pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator</pre>	/Accelerator/	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives	
 <pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator</pre>	/Accelerator/	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit	olorant/Ink and additi Reprographic chemical
 <pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent</pre>	/Accelerator/ er/Scavenger/	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit Q = Fuel and fuel	olorant/Ink and additi Reprographic chemical tion/Plating chemicals additives
 <pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator</pre>	/Accelerator/ er/Scavenger/ /Sequestrant	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit Q = Fuel and fuel	olorant/Ink and additi Reprographic chemical tion/Plating chemicals additives nicals and additives
 A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit Q = Fuel and fuel R = Explosive chem S = Fragrance/Flav T = Pollution cont	plorant/Ink and additi Reprographic chemical tion/Plating chemicals additives micals and additives yor chemicals
A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit Q = Fuel and fuel R = Explosive chem S = Fragrance/Flav T = Pollution cont U = Functional flu	plorant/Ink and additives and additives chemicals and additives chemicals are chemicals are chemicals are also and additives are also and additives are and additives
 A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif:	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit Q = Fuel and fuel R = Explosive chem S = Fragrance/Flav T = Pollution cont U = Functional flu V = Metal alloy ar	clorant/Ink and addition Reprographic chemicals additives micals and additives yor chemicals crol chemicals aids and additives and additives
A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear ier	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit Q = Fuel and fuel R = Explosive chem S = Fragrance/Flav T = Pollution cont U = Functional flu V = Metal alloy an W = Rheological mo	clorant/Ink and addition and addition and addition additives additives are chemicals are chemicals are chemicals and additives are and additives and additives and additives additives additives additives
 A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif: J = Flame retardant	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear ier esive and additives	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit Q = Fuel and fuel R = Explosive chem S = Fragrance/Flav T = Pollution cont U = Functional flu V = Metal alloy an W = Rheological mo X = Other (specify	clorant/Ink and addition and addition and addition additives additives are chemicals are chemicals are chemicals and additives are and additives and additives and additives additives additives additives
 A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif: J = Flame retardant K = Coating/Binder/Adhe	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear ier esive and additives	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Co O = Photographic/F and additives P = Electrodeposit Q = Fuel and fuel R = Explosive chem S = Fragrance/Flav T = Pollution cont U = Functional flu V = Metal alloy an W = Rheological mod X = Other (specify type of end-users:	clorant/Ink and additated and additated and additives additives are chemicals are chemicals are chemicals and additives are chemicals and additives and additives and additives additives additives additives

	b.	c. Average % Composition of	d.
Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-User
None			
		·	
where a third the state of the			
1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
¹ Use the following coo A = Solvent	les to designate prod	duct types: L = Moldable/Castable	/Rubber and ad
B = Synthetic reactar		M = Plasticizer	
C = Catalyst/Initiato	or/Accelerator/	N = Dye/Pigment/Color	ant/Ink and ad
Sensitizer D = Inhibitor/Stabili	zer/Scavenger/	<pre>0 = Photographic/Repr and additives</pre>	ographic chemi
Antioxidant	.zer/beavenger/	P = Electrodeposition	/Plating chemi
E = Analytical reagen	ıt	Q = Fuel and fuel add	
F = Chelator/Coagulan		R = Explosive chemical	
G = Cleanser/Detergen		S = Fragrance/Flavor	
H = Lubricant/Friction	n modifier/Antiwear		
agent	fin	U = Functional fluids	
T Cumfaatamt/Paulas	lier	V = Metal alloy and a	
I = Surfactant/Emulsi		- U - Dhoologiaal madif	
J = Flame retardant	hesive and additives	<pre>W = Rheological modif: X = Other (specify)</pre>	ier
<pre>J = Flame retardant K = Coating/Binder/Ad</pre>		X = Other (specify) _	
<pre>J = Flame retardant K = Coating/Binder/Ad</pre>	es to designate the	<pre>x = Other (specify) final product's physical</pre>	
J = Flame retardant K = Coating/Binder/Ad ² Use the following cod A = Gas B = Liquid	es to designate the F2 = Crys F3 = Gran	<pre>x = Other (specify) final product's physical talline solid ules</pre>	
J = Flame retardant K = Coating/Binder/Ad ² Use the following cod A = Gas B = Liquid C = Aqueous solution	es to designate the F2 = Crys F3 = Gran F4 = Othe	<pre>x = Other (specify) final product's physical talline solid ules</pre>	
J = Flame retardant K = Coating/Binder/Ad 2Use the following cod A = Gas B = Liquid C = Aqueous solution D = Paste	F2 = Crys F3 = Gran F4 = Othe G = Gel	<pre>x = Other (specify) final product's physical talline solid tules tr solid</pre>	al form:
J = Flame retardant K = Coating/Binder/Ad ² Use the following cod A = Gas B = Liquid C = Aqueous solution	F2 = Crys F3 = Gran F4 = Othe G = Gel	<pre>x = Other (specify) final product's physical talline solid ules</pre>	al form:
J = Flame retardant K = Coating/Binder/Ad 2Use the following cod A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder	F2 = Crys F3 = Gran F4 = Othe G = Gel H = Othe	final product's physical stalline solid sules or solid specify)	al form:
J = Flame retardant K = Coating/Binder/Ad 2Use the following cod A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry	F2 = Crys F3 = Gran F4 = Othe G = Gel H = Othe es to designate the	final product's physical stalline solid sules or solid straightful solid solid solid straightful solid	al form:
J = Flame retardant K = Coating/Binder/Ad 2Use the following cod A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder 3Use the following cod	F2 = Crys F3 = Gran F4 = Othe G = Gel H = Othe es to designate the CS = Cons	final product's physical stalline solid sules or solid straightful solid solid solid straightful solid	al form:
J = Flame retardant K = Coating/Binder/Ad 2 Use the following cod A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder 3 Use the following cod I = Industrial	F2 = Crys F3 = Gran F4 = Othe G = Gel H = Othe es to designate the CS = Cons	final product's physical stalline solid sules ar solid sur (specify) type of end-users:	al form:

2.15 CBI		ele all applicable modes of transportation used to deliver beed substance to off-site customers.	ulk shipments	of the
[-]	Truc	.k		
		car		
		e, Vessel		
		line		
		e		
	othe	r (specify)	• • • • • • • • • • • • • •	(
2.16 <u>CBI</u> [_]	or p of e	omer Use Estimate the quantity of the listed substance us repared by your customers during the reporting year for use nd use listed (i-iv).	sed by your cu under each ca	istomers itegory
	i.	Industrial Products		
		Chemical or mixture	NA	kg/yr
		Article		kg/yr
	ii.	Commercial Products		~8.7-
		Chemical or mixture	NA	kg/yr
		Article	7.	kg/yr
	iii.	Consumer Products	/	
		Chemical or mixture	NA	kg/yr
		Article	NA	kg/yr
	iv.	Other	/ /	_ 。
		Distribution (excluding export)	NIA	kg/yr
		Export		kg/yr
		Quantity of substance consumed as reactant	/.	kg/yr
		Unknown customer uses		kg/yr
				~6//1
[]	Mark	(X) this box if you attach a continuation sheet.		

	SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION						
PART	A GENERAL DATA		The state of the s				
3.01 <u>CBI</u> []	Specify the quantity purchased and the average price for each major source of supply listed. Product trace. The average price is the market value of the product substance.	des are treated as	purchases.				
	Source of Supply	Quantity (kg)	Average Pric (\$/kg)				
	The listed substance was manufactured on-site.		NA				
	The listed substance was transferred from a different company site.	Na	~ M				
	The listed substance was purchased directly from a manufacturer or importer.	1,40 MILLIAN	\$ 356 /kg				
	The listed substance was purchased from a distributor or repackager.	, i A	~.4				
	The listed substance was purchased from a mixture producer.	<u> </u>	NA				
3.02 CBI	Circle all applicable modes of transportation used to your facility.	deliver the liste	d substance to				
[_]	Truck	••••••	1				
	Railcar	• • • • • • • • • • • • • • • • • • • •					
	Barge, Vessel						
	Pipeline	• • • • • • • • • • • • • • • • • • • •	4				
	Plane	• • • • • • • • • • • • • • • • • • • •	5				
	Other (specify)	• • • • • • • • • • • • • • • • • • • •	6				

[_]	Mark	(X)	this	box	if	you	attach	а	continuation	sheet
-----	------	-----	------	-----	----	-----	--------	---	--------------	-------

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars4
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums 8
		Pipeline 9
		Other (specify)10
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders mmHg
		Tank rail cars mmHg
		Tank trucks mmHg
	····	
<u>_</u>]	Mark	(X) this box if you attach a continuation sheet.

3.04 CBI	If you obtain the list of the mixture, the na average percent compos amount of mixture prod	timate of the		
[<u>]</u>]	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
	-			

3.05 CBI	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, and the percent composition, by weight, of the listed substance.						
_]		Quantity Used (kg/yr)	$\%$ Composition by Weight of Listed Substance in Raw Material (specify \pm % precision				
	Class I chemical	1 47 11 11110	9272 01 3				
	Class II chemical	~/A	NA				
	Polymer		<u> </u>				

•								
	SECT	TION 4 PHYSICAL/CHEMI	CAL PROPERTIES					
Gener	ral Instructions:							
If yo 4 tha	ou are reporting on a mixt at are inappropriate to mi	ture as defined in the ixtures by stating "NA	glossary, reply to que mixture."	uestions in Section				
notic	questions 4.06-4.15, if your set that addresses the informal mile in lieu of answering	ormation requested, yo	u may submit a copy o	oel, MSDS, or other reasonable				
PART	A PHYSICAL/CHEMICAL DATA	A SUMMARY						
4.01 <u>CBI</u>	Specify the percent purity for the three major 1 technical grade(s) of the listed substance as it is manufactured, imported, or processed. Measure the purity of the substance in the final product form for manufacturing activities, at the time you import the substance, or at the point you begin to process the substance.							
r,		Manufacture	Import	Process				
	Technical grade #1	//////////////////////////////////////	NA % purity	<u> </u>				
	Technical grade #2	NA % purity	% purity	% purity				
	Technical grade #3	N/A % purity	% purity	<u> </u>				
	¹ Major = Greatest quanti	ty of listed substanc	e manufactured, import	ed or processed.				
4.02	Submit your most recently updated Material Safety Data Sheet (MSDS) for the listed substance, and for every formulation containing the listed substance. If you possess an MSDS that you developed and an MSDS developed by a different source, submit your version. Indicate whether at least one MSDS has been submitted by circling the appropriate response.							
	Yes	• • • • • • • • • • • • • • • • • • • •						
	No			2				
	Indicate whether the MSD	S was developed by yo	ur company or by a dif	ferent source.				
	Your company							

Mark (X) this box if you attach a continuation sheet.

Another source

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

Physical State Liquified Activity Solid Slurry Liquid Gas Gas Manufacture Import **Process** , Store Dispose Transport

^[] Mark (X) this box if you attach a continuation sheet.

CBI	particles importing listed su	ge distribution of the listed substance by activity. Do not include s ≥10 microns in diameter. Measure the physical state and particle sizes for g and processing activities at the time you import or begin to process the ubstance. Measure the physical state and particle sizes for manufacturing disposal and transport activities using the final state of the product.						
[_]	Physical State	NA	Manufacture	Import	Process	Store	Dispose	Transport
	Dust	<1 micron					474	APPROVED A COLUMN TO THE PROPERTY OF THE PROPE
		1 to <5 microns	•	***************************************	-			
		5 to <10 microns						
	Powder	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Fiber	<1 micron					**************************************	and the first all the
		1 to <5 microns	***					
		5 to <10 microns						**************************************
	Aerosol	<1 micron		**********			***	
		1 to <5 microns		·				
		5 to <10 microns			- A Strict			

SECTION	5	ENVIRONMENTAL	PATE
DECITOR	.)	PUATKONUPNIAL	FAIL

a.	dicate the rate constants for the following transformation processes. Photolysis:	
a .	<u> </u>	
	Absorption spectrum coefficient (peak) $37/$ (1/M cm) at $38/$	•
	Reaction quantum yield, 6	
	Direct photolysis rate constant, k _p , at < 1.2 × 10 ⁻³ 1/hr WHEN NO. 24	
b.	Oxidation constants at 25°C: $0.37/HR^{(2)}$	
	For 10, (singlet oxygen), k _{ox}	1/
•	For RO ₂ (peroxy radical), k _{ox}	1/
c.	Five-day biochemical oxygen demand, BOD ₅ Not APPLICABLE DUE TO	mg.
d.	Biotransformation rate constant:	
	For bacterial transformation in water, k No oxygen consumed	1/
	Specify culture IN MODIFIED MITH test (3)	
e.	Hydrolysis rate constants:	
	For base-promoted process, k _B	1/1
	For acid-promoted process, k,	1/1
	For neutral process, k _N	1/}
f.	Chemical reduction rate (specify conditions) Not expected	•
	onemical reduction rate (specify conditions) /o(/ EXFECTE))	
~	Other (such as spontaneous degradation) POLYUREA FORMATION UNDER	
g.		
	HYDROLYTIC CONDITIONS (4)	

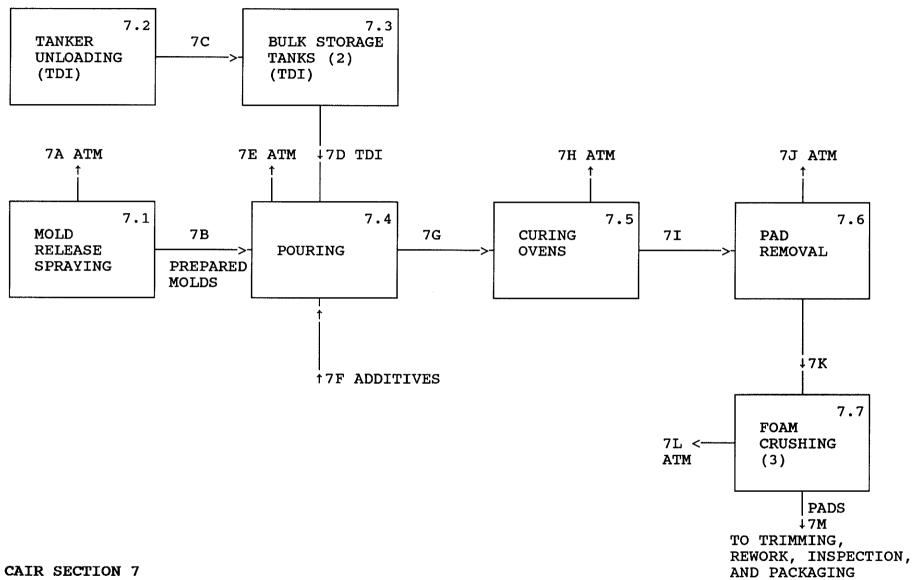
[] Mark (X) this box if you attach a continuation sheet.

$\overline{}$	PARI		PARTITION COEFFICIEN	ITS		
	5.02	? a.	Specify the half-l	ife of the listed substan	nce in the follow	ring media.
			Media		Half-life (spec	ify units)
			Groundwater	<< / DAY /	IN WATER SOLUT	10N (4)
			Atmosphere	26 HR ((2)	
			Surface water	<< /par in	U WATER SOLUTION	, (4)
			Soil	< 1 DAY ((4)	
		b.	Identify the listed life greater than 2	l substance's known trans 4 hours.	formation product	ts that have a half-
			CAS No.	Name	Half-life (specify units)	Media
			NOT FOUND	POLYUREA	>1 YR	in <u>WATER</u> \$ Soll (4)
			95-80-7	2,4-TOLUENE DIAMINE	LIDAY	in BIOLOGICAL WASTE
`			823-40-5	2, 6 - TOLUENE DIAMINE	<th>in WATER TREATMENT</th>	in WATER TREATMENT
ì			5206-52-0	UREA, N, N'-BIS (3-150C)	ANATO-4-METHYLPHE	A
					UNKNOWN HOLF-LIF	
	5.03	Spec	ify the octanol-wate	er partition coefficient,	K REACTS	wi714 80714 at 25°C
				determination		
	5.04	Spec	ify the soil-water p	eartition coefficient, K _d	····· RENCTS	with warm at 25°C
		Soil	type	•••••		
-						
	5.05	Spec: coef:	ify the organic carb ficient, K _{oc}	on-water partition	REALTS W	1711 W47ER at 25°C
5	.06	Speci	ify the Henry's Law (Constant, H	RENCTS W	/ገዞ ሁላንተያ atm-m³/mole
_ [] _	_] +	1ark	(X) this box if you	attach a continuation sh	eet.	

Bioconcentration F	<u>Species</u>	Test ¹
NONE DETECTED	MOINA MACROCOPA STRAUS	NOT DEFINED (4)
NONE DETECTED	CYPRINUS CARPIO	NOT DEFINED (4)
¹ Use the following F = Flowthrough S = Static	codes to designate the type of test	:
	CHOO, EDS., ORGANIC ELECTRONIC SPECTA AL	DATA, VOLIV, PG 200.
TOLVENEDIAMINE CONDITIONS, J. (3) N. CASPERS, B. HA TDA AND MDA, 1986. QUOTED IN POLYURETHONES WA (4) F.K. BROCHHAGE. WATER AND SOIL	BASTIAN AND TH. KLEIN, THE REACTION AND METHYLENEDIANILINE UNDER 3 PHOTOCHEM. AND PHOTOBIOL., A: CHEMIST BURGER, R. KANNE AND WAKLEBERT, ECOR REPORT TO THE INTERNATIONAL ISOCH, D.S. GILBERT, FATE OF TDI AND MOSI PLO CONGRESS 1987, PROCEEDINGS OF AND B.M. GRIEVESON, ENVIRONMENTAL CELLULAR POLYMERS, 3 (1984) 11-17. ICRO DETERMINATION OF TOLLENEDIISOCK (1957) 552-558	SIMULATED ATMASPHERIC STRY, 45 (1988) 195-205 OTOXICITY OF TDI, MOI, ONATE INSTITUTE, E-CE-47 THE SPIFFSK. ASPECTS OF ISOCYANATES IN
,	C 10 002 000,	
() G.A. CAMPBELL,	T. J. DEARLOVE AND W.C. MELUCH, L 906,019 (1975), CHEM. ABS. 24:56	DI (150CYANDTO TOLYL) URFA,

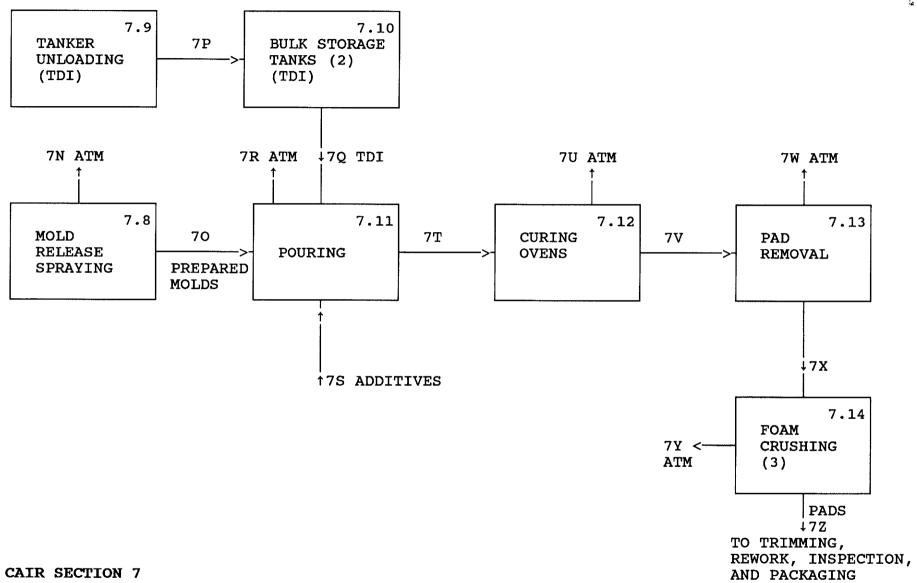
6.04 CBI	For each market listed below, state the listed substance sold or transferm		
[_]		Quantity Sold or	Total Sales
	Market	Transferred (kg/yr)	Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		***
	Intra-company transfer		4 ¹⁰ -161-17-18-18-18-18-18-18-18-18-18-18-18-18-18-
	Repackagers		
	Mixture producers		
	Article producers	- care and the PAPA	
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
6.05 <u>CBI</u>	Substitutes List all known commerci for the listed substance and state the feasible substitute is one which is ec in your current operation, and which r performance in its end uses.	cost of each substitutionomically and technological	ite. A commercially logically feasible to use
()	Substitute		Cost (\$/kg)
	Anne KNOWN		
[_]	Mark (X) this box if you attach a cont	inuation sheet.	

Cana									
For o	ded in qu	7.04-7. uestions	06, pro 7.01,	vide a so 7.02, and	eparate 1 7.03.	response Identi	e for each p fy the proce	orocess bloc ess type fro	ck flow diagram om which the
info	mation is	s extrac	ted.						
PART	A MANUFA	ACTURING	AND PR	OCESSING	PROCESS	S TYPE DE	ESCRIPTION		
7.01 CBI	major (g	greatest	volume) process	type i	nvolving	the listed	substance.	agram showing the
[_]	Process	type	•••••	Pource	26 7 Julians	Fran	PRODUCTION	Line 1	



CAIR SECTION 7
PROCESS FLOW DIAGRAM - LINE 1
WOODBRIDGE GROUP
ST. PETERS, MISSOURI

7.03	In accordance with the process emission stream which, if combined, we treated before emission from one process type, for question 7.01. If type, provide a procest block.	ams and emission ould total at lead on into the environment of provide a processiall such emissi	points tast 90 perconment. ess blocklons are	that contain ercent of all If all such t flow diagrameleased from	the listed facility enemissions and using the more than	substance and missions if not are released instructions one process
CBI	Process type	Portingue.	Loan	1 many Francis	/wra	
lJ	riocess type	HAC, OUTPY	6.3481	- 1.05 (10 C) / (0 C		
						·
[_]	Mark (X) this box if yo	ou attach a conti	nuation	sheet.		



CAIR SECTION 7
PROCESS FLOW DIAGRAM - LINE 2
WOODBRIDGE GROUP
ST. PETERS, MISSOURI

_/	1/2
7	

7.04 Describe the typical equipment types for each unit operation identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.

CBI

[] Process type | POLYERETHINE FORM PRODUCTION LINE /

Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
<u> </u>	Seesy Boots	<u> </u>	230	<u> 18/4</u>
72	Ray Car Hose	James ent	1292	STANCESS STEEL, POPUR
73	STORPER TANK	24	<u> </u>	<u> 5702/12/155</u> Some
214	Bun Kours	<u> 24</u>	_76O	<u> NA</u>
<u> 75</u>	DIKN	<u>65,6</u>	<u> 760 </u>	<u> </u>
7.1	Demon Japa	24	<u>760</u>	
7.7	CRUSHER .	20	<u> 260 </u>	NA

 $^{[\}stackrel{\sim}{\sum}]$ Mark (X) this box if you attach a continuation sheet.

7.04 CBI	process block	typical equipment types k flow diagram(s). If a cess type, photocopy thi	process block flo	w diagram is pr	covided for more
[_]	Process type	Bayeres	e Tun People	0710 4 C/48 2	2
	Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
	3.8	SPRAT BOOTH	26	730	10/A
	20	ResideR Hose	1. 18 - W.	1292	STAWLESS STEEL, ROB
	3/10	Stomic TAMES	30	<u> 760 </u>	<u>Samues Se</u>
	7.77	Bux Booth	24	<u> </u>	
	<u> </u>	DEN	<u> 292 - </u>	_ <i>730</i>	
	12,13	Deman LRCA	24	760	<u> </u>
	7.74	(RUSEIR	24	<i>?10</i>	n/A

[_] Mark (X) this box if you attach a continuation sheet.	
---	--

] . , ;					
7.05	Describe each process process block flow dia question and complete	gram is provided fo	r more than one pro		
[<u>]</u>]	Process type	POLYURE HANG	Fran PROCUCT	TOU I WE	<u> </u>
	Process Stream ID	Process Stream	Dhusical	Santa ¹	Stream

Process Stream Description	Physical State	Stream Flow (kg/yr)
MOUN SANTIAL EXPOSE	<u> </u>	10% MILLIAN
1/2:05	52	<u> </u>
TANK LOADING LINE	04	0.75 MILLION
LYPRANAY FELD	04	0,75 nice 13N
POURING EXMOST	<u> </u>	311 MILLION
Approve Packets 1		1.85 mueno
France Paris		2.6 MILLION
Organ Axamst	OU	284 MILLIEN
	Description Moun Santine Expassion Mount Santine Expassion Mount Loanne Line Lypennage Fees Pouring Expassion Applied Page Fram Page Fram Page	Description Physical State Moun Sarrine Crists Country Control Color Trank Londone Crist Ligenamy Feed Pouring Country Applied Package 1 Form Park

 $^{^{1}}$ Use the following codes to designate the physical state for each process stream:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

 $[\]left[\sum \right]$ Mark (X) this box if you attach a continuation sheet.

Process type	<u>Polykrenkine Fin</u>	n PRIOCETIEN L	int L
Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
7.5	Fram Pass		26 01/64
	Demaco Express	<u> </u>	132 m/42/60
<u>-14</u> 701	F	<u> </u>	<u>132 milienda</u> 276 milienda
	Process Stream ID Code	Process Stream ID Process Stream Code Description Foam (20) Foam (20)	Process Stream ID Code Description Physical State Foam Pass Demous Execusive GU TI Toam Pass Foam Pass

 $[\underline{\nearrow}]$ Mark (X) this box if you attach a continuation sheet.

4	3/4	,	

7.05	Describe each process stream identified in your process block flow diagram(s). If a	a
	process block flow diagram is provided for more than one process type, photocopy this	İs
	question and complete it separately for each process type.	

<u>CBI</u>		-		. 3	,		
[_] Process ty	/pe	POLY LIPETHAME	E. gar	LOOPERTHINE	LINE	2	
Process	3						

Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
- 7 <i>N</i>	MOLD SPEARING EXEAST	<u>EU</u>	106 million
<u> </u>	<u> </u>		<u>w/a</u>
7P	TRAC LOADING LINE		0.35 MILLION
<u> </u>	LUPRANATE FOR	C. Garage	0.75 MILLION
<u> </u>	RURING EXPAIST	<u> </u>	158 MILLION
<u>75</u>	MODITIVE PROMISE 1	<u> </u>	1,85 MILLION
- 7 ;	Frank Pros	50	2.5 MILLION
70	DUEN ENMOST	<u> </u>	Sty MILLIAN

 $^{^{1}\}mbox{Use}$ the following codes to designate the physical state for each process stream:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

[X] Mark (X) this box if you attach a continuation she	[<u>X</u>]	ark (X) this be	ox if you	attach a	continuation	sheet
--	--------------	--------	-----------	-----------	----------	--------------	-------

<u>BI</u>		Drawers Hand Town		
1	Process type	····· <u>TACKOW THANE</u> OK	<u> </u>	· Va eri .
	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
	7V	FOAD PARS	SO	2,5 m/26
	2W	Democe Expres		105 preserv
	3/	Francis Cons		216 MILLIEN
	Y	CRUSHER CARREST	G^{\perp}	100 macion
	77	Jan Ages	550	2.5 ,5,166100
	***************************************			····
	1 Use the followi	ng codes to designate the physic	and grate for each pro-	
	GC = Gas (conde GU = Gas (uncon SO = Solid SY = Sludge or AL = Aqueous li OL = Organic li	quid	d pressure) and pressure)	
	GC = Gas (conde GU = Gas (uncon SO = Solid SY = Sludge or AL = Aqueous li OL = Organic li	nsible at ambient temperature an densible at ambient temperature slurry quid quid	d pressure) and pressure)	

Proces Strea ID Coo	ss Im		c. Concen-	d.	е.
Strea ID Cod	ım		Concen-		
7.4		ipounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	418		on my	1 APRTHA	<u> 11 /12 ppm</u>
<u> 78</u>			10 / P	, u/g	n H
<u> </u>		6 NUSÓCKANAR			<u> </u>
 .06 continu	ed below				

	a.	b.	c.	ď.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ² , ³ (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm)
	<u> </u>	Town I is proporaginate	20%	<u> </u>	N/A
		TOURNE 24-17/500KAMET			
	76	Air	99.39.14	Trueve Dissertant	0.00 15 0001
				1), 27-8N/28n/48	<u>0.03 ppmh</u> (E)(w)
	<u> 7F</u>	Immerce Property	4) /4		N 4
 06	continued b	elow			

	a.	e <u>Our</u> s	<u>c.</u>	n Production Li	e.
	Process Stream ID Code	Known Compounds	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrati (% or ppm
	¥ <u>(</u> ,	Form Paps	<u> </u>	(and	n/4
-	<u> </u>		.20 x0 6 x2	TO JOHN DUNCKANATE	Q.COSIPM
				Prestandiamini	002 00m (E) (W)
-	71	Som Paps		R - we	N/4
6 0	continued be	elow			

7.06 CBI	If a proces this questi- instruction	e each process stream is s block flow diagram is on and complete it sepa s for further explanati	s provided for mo arately for each ion and an examp	ore than one proces process type. (Re le.)	s type, photocoper efer to the		
[_]	Process type FOLTURE THAM FORM PRODUCTION LINE!						
	a.	b.	c.	d.	e.		
	Process Stream ID Code	Known Compounds	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)		
	71	Air	<u> 22.223</u>	DILVENT PY SUCTAMENT	0.003 ppmu		
				DILIBAR PY SULVANOR	Olypmw (E)(w)		
	73	Fodos Pars	<u>\{\tau}</u>	1 · / A·	N/A		
	<u> 7L</u>			Towns Bully Want	er 12.222.2000		
				DISTANDIAMINE	0,05 vomic (E (m)		
 7.06	continued be	elow					

_] Process typ	pe tacr	unfilled Logic	n PRODUCTION	Line 1
а.	b.	c.	d.	е.
Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm
7/1	Form Pers	<u> </u>	Va	<u> </u>
O6 continued b	elow			

CBI	instruction	s for further exp	t separately for each	ple.)	
<u>_</u>]	Process typ	oe <u> </u>	eterryane Eum	Meanucipu C.	nt L
	a.	b.	с.	d.	е.
	Process Stream ID Code	Known Compound	Concen- trations ^{2,3} <u>ds</u> ¹ (% or ppm)		Estimated Concentrations (% or ppm)
	71	AIR		16 1957-187	1100 ppm.
					(E)(N)
	<u> 70 </u>	Masos	n ha	12 /4	
	7P	JOHNERY 2,6 - DIS.	XYMAN <u>202</u>	<u>. 600 f</u>	<u>whe</u>
		SELFAN 2, 4 - DUS	octherest No. 7.		
.06	continued b	elow			

[_]	Process typ	pe POLYUKET	HANG FORM		106 2
	a. Process Stream ID Code	b. <u>Known Compounds</u> ¹	Concen- trations ^{2,3} (% or ppm)	d. Other Expected Compounds	e. Estimated Concentrations (% or ppm)
	<u> </u>	TOLUENE 24-0450CYANAR	<u> 20%</u> 20%	<u> </u>	
	<u>7R</u>	- Jik		CHUERE DUSCETANATE DETRANDLAMINE	- 0.001 ppma 0.04 ppma (6)(w).
	<u> </u>	ACCOUNTS PACKAGE #1	A de la		NA
	continued b	Delow			

[_]	Process type Process type						
	a.	b.	c.	d.	e.		
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)		
		Form Pos	<u> </u>		<i>\times /\theta</i>		
	70	AIR.	122 173	1. KUSAE 11150KYANAIK	2,225 ppm		
				DETRALOR AMINE	0.92 pomw (E/W)		
	<u> </u>	Foam Pass	• 55 P.	<u>/4</u>	11/4		
7.06	continued b	elow					

	Process typ	e Octure	HARRY CARRY	PRODUCTION LINE	<u> </u>
	a.	b.	c.	d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm)
	アル /	NR.	1297 1 7 Y	TOWN MINSTANAT	2.004 pam
				Definition of	01/ 10mm
					CE (W)
	<u> 7</u> Y	Forn Pars	ATO N	N, A	n/.9
	••• , ,	J			
	77	AR	. <u>92022</u>	TOLUENE DUSCHAMATE	v*
				Designeramina	<u>-), 25 pyrnw</u> - {E}(w)
.06	continued be	elow			

BI	instructions	on and complete it seps for further explanat	ion and an example	e.)	
1	Process type	e Bourus	THANK WAM TO	MOCTION LINE	<u> </u>
	a.	b.	c.	d.	е.
	Process Stream ID Code	Known Compounds	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm)
	77	Form Peas	<u> </u>	/ _N / ₄	
					
	Makhalashi umumi kathahaman mama				
 06	continued be	low			·

7	.06	(continued)
,	• • •	(continued)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1	F02182	92.4 % (EXh
	Distribution of the	1.5 % (c)(w)
	C #701 Ur57	0,5 % (EXW)
2	N 37.18	3. 8 % (E)(H)
-	Somewhar	1.3 ½ (E/W)
3		
4		
		
5		
² Use the following code:	s to designate how the concentrat	ion was determined.
A = Analytical result E = Engineering judgement		Ton was determined.
Use the following codes	s to designate how the concentrat	ion was measured:
V = Volume W = Weight		

SECTION 8	RESIDUAL	TREATMENT	GENERATION,	CHARACTERIZATION,	TRANSPORTATION,	AND
	MANAGEMEN	JT				

General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block flow diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

Mark (X)	this box	if you	attach a	continuation	sheet.
----------	----------	--------	----------	--------------	--------

8.01 CBI	In accordance with the in which describes the treat	nstructions, provide a tment process used for	residual treatment block f residuals identified in qu	low diagram estion 7.01
[_]	Process type	N/4 - No cene	5 RES 12 25	
		/		

8.05 CBI	diagram process	n(s). If a is type, photo	residual trea ocopy this qu	itment block f estion and co	in your residu low diagram is mplete it sepa r explanation	provided for rately for ea	more than ch process
[_]	Process	s type	• • • •	NA	**************************************	ur - Pastina	14-5 a
	a.	b.	c.	d.	е.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimate Concen- trations (% or ppm
.05	continue						

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) 8.05 continued below Mark (X) this box if you attach a continuation sheet.

Additive Package Numbe	<u>er</u>	Components of Additive Package	Concentration (% or ppm)
1			
2	_		
3	_		
4			
5			
⁴ Use the follow	ing codes to	designate how the concentrati	on was determined:
A = Analytical E = Engineerin	result		
continued below			

8.05 (continued)

8.05	(continu	ed)	
	⁵ Use the	following codes to designate how the concentration was mean	sured:
	V = Vol W = Wei		
	⁶ Specify below.	the analytical test methods used and their detection limits Assign a code to each test method used and list those codes	s in the table s in column e.
	<u>Code</u>	Method	Detection Limit (± ug/l)
	1		
	3		

	6		,
			l
[_]	Mark (X)	this box if you attach a continuation sheet.	

CBI			•	, * , <i>f</i>				
[_]	Process	type	· · · · · · · · · · · · · · · · · · ·	<u>Fiz</u>				
	a. Stream	b. Waste	c. Management	d. Residual	e Mana	gement	f. Costs for Off-Site	g. Changes in
	ID Code	Description Code ¹	Method Code ²	Quantities (kg/yr)		dual (%) Off-Site	Management (per kg)	Management Methods
								
		,						
				bit 8-1 to do				

8.22 <u>CBI</u>	Describe the (by capacity) your process	incinerator	s that are us	sed on-site	to burn the i	residuals id	argest entified in		
[_]		Ch	oustion namber nture (°C)	Temp	ation of perature pnitor	In Co	ence Time mbustion (seconds)		
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondar		
	1								
	2		-	distribution of the second					
	3								
	Indicate by circl	e if Office ling the app	of Solid Wast ropriate resp	e survey ha	s been submit	ted in lieu	of response		
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •		• • • • • • • • • • • • •	• • • • • • • • • •			
	No	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •			
8.23 <u>CBI</u> []	Complete the fare used on-si treatment bloc	te to burn	the residuals	nree larges identified	t (by capacit in your proc	y) incinerat ess block or Types	residual		
_	Incinerator		Air Po Control	llution Device ¹		Emission Avail	ns Data		
	1		į.	4		~ /	l A		
	2		· · · · · · · · · · · · · · · · · · ·						
	3								
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.								
	Yes	• • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • •	1		
	¹ Use the follo								
	S = Scrubber (E = Electrosta O = Other (spe	atic precipi	tator	in parenth	nesis)				
[_]	Mark (X) this l	oox if you a	ttach a conti	nuation she	eet.				

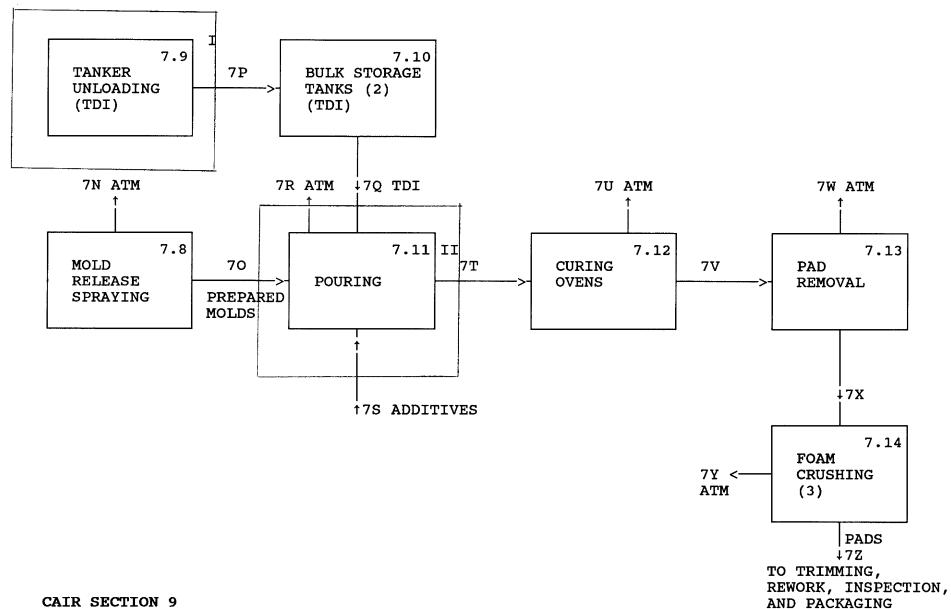
PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

		intained for Salaried	Year in Which Data Collection	Number of
Data Element	Hourly Workers	Workers	Began	Years Record Are Maintain
Date of hire	$\underline{\lambda}$	<u> </u>	1387	INDEFINATED
Age at hire	<u>×</u> ,	<u> </u>	1787	INDEFINATE
Work history of individual before employment at your facility	X	X	1287	INNEFINATEL
Sex	$\overline{\lambda}$	<u> </u>	1987	INDEFINATEL
Race	<u> </u>			I-1406P12+7151
Job titles		×	<u> </u>	INCEFIVARE
Start date for each job title	<u> </u>	<u> </u>	1983	INVERIMETE
End date for each job title	<u> </u>		1987	INDEFLUATE
Work area industrial hygiene monitoring data	<u></u>		1987	INDEFINATE
Personal employee monitoring data	_X	<u> </u>	1137	INDEFINATE
Employee medical history	<u> </u>	<u> </u>	1927	INDEFINAT
Employee smoking history	<u>X</u>	<u> </u>):337	INDEFINAT
Accident history	<u> </u>	<u>X</u>	1987	INDEFINATE.
Retirement date		X	11,67	INDEPMALE
Termination date	<u> </u>	<u> </u>	<u> 198</u> ₹	INDEFINATO
Vital status of retirees	X	<u> </u>	19%3	INDEFINATE
Cause of death data	<u> </u>	<u> </u>	1017	1. NDEFINATO

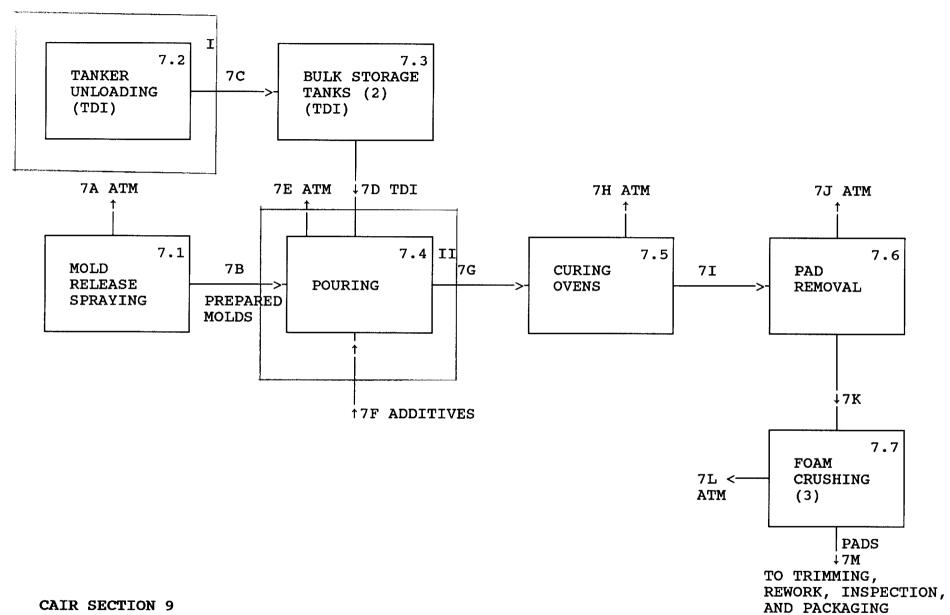
are of the abstance	Process Category Enclosed Controlled Release Open Enclosed Controlled Release	Yearly Quantity (kg) N/4 N/A N/A N/A N/A N/A	Total Workers	Total Worker-He NA NA NA
ibstance se as	Controlled Release Open Enclosed Controlled Release	N/A N/A N/A	NA NA NA	7,
se as	Open Enclosed Controlled Release	10/4 10/4	NA NA NA	- N/A - N/A - N/R
	Enclosed Controlled Release	<u> </u>	N/A N/A	NA
	Controlled Release	- in	N/A	NA
		1,49 MILLION	1-	,
	Onen		_/_	
	0pen	<u>~~~/4</u>	<u> </u>	<u> </u>
se as nt	Enclosed		- aft	N/A
пс	Controlled Release	<u> N/B</u>	/#_	NA
	0pen	<u> N/A</u>	n/2	~/A
On-site preparation of products	Enclosed	<u> </u>	_N/A	N/A
	Controlled Release		V/A	NA
	0pen		n/h	NA
		Open reparation Enclosed ts Controlled Release	Open Controlled Release	Open reparation ts Controlled Release

encompas	a descriptive job title for each labor category at your facility that ses workers who may potentially come in contact with or be exposed to thubstance.
]	
Labor Cate	egory Descriptive Job Title
A	
В	PROCESS ENGINEER
С	
D	
E	
F	
G	
Н	
I	
J	

9.04	In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.
<u>CBI</u>	
[_]	Process type
•	
<u></u>	Mark (X) this box if you attach a continuation sheet.
	91



CAIR SECTION 9
PROCESS FLOW DIAGRAM - LINE 2
WOODBRIDGE GROUP
ST. PETERS, MISSOURI



CAIR SECTION 9
PROCESS FLOW DIAGRAM - LINE 1
WOODBRIDGE GROUP
ST. PETERS, MISSOURI

CBI	Process type	POLYURETHANK FORM PRODUCTION
	Work Area ID	Description of Work Areas and Worker Activities
	1	METERINE PUM? CALIBRATION
	2	METERINE PUM? CALIBRATION
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	

—,	_		8	<i>j</i>	;)		
_ J			FOLY URETHONE				
	Work area .	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				***************************************
	Labor <u>Category</u>	Number of Workers Exposed	Mode of Exposi (e.g., dir skin conta	rect	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
	<u>A</u>		INHALATION		<u> </u>		24
							-
			 				
		-					
		4-8-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4					-
	GC = Gas (lowing codes to fexposure: condensible at erature and pre		SY =	cal state of Sludge or sl	urry	bstance at
	tempe	uncondensible rature and predes fumes, vap	essure;		Organic lique Immiscible la (specify pha 90% water, 10	iquid ses, e.g.,	
	² Use the fol	lowing codes t	o designate av	erage l	ength of expo	sure per day:	
	A = 15 minu B = Greater exceedi C = Greater		es, but not	D = E =	Greater than : exceeding 4 ho Greater than 4 exceeding 8 ho Greater than 8	2 hours, but rours 4 hours, but rours	

 [] Pro	cess type	· · · · · · · /	POLYLYWITEME	* 1303.19	Proportula		
	Labor tegory	Number of Workers Exposed	Mode of Expos (e.g., di skin cont	rect	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
	<u>B</u>		I.V.HOLATIL	· V	<u> </u>	<u> </u>	12
_							
<u> </u>							
***************************************	<u> </u>		***************************************				
¹Use the	the foll point of	lowing codes t E exposure:	o designate th	ne physi	ical state of	the listed su	bstance at
GC		condensible at			= Sludge or sl		
CII	temper	ature and pre incondensible	ssure)		Aqueous liqu		
00		ature and pre			 Organic liqui Immiscible li 		
so	includ = Solid	les fumes, vap	ors, etc.)		(specify pha: 90% water, 10		
² Use	the foll	owing codes to	o designate av	erage l	ength of expo	sure per day:	
A =	15 minut	es or less		D =	Greater than 2	2 hours, but r	not
B =		than 15 minute	es, but not		exceeding 4 ho	ours	
C =		g 1 hour than one hour	. but not		Greater than 4 exceeding 8 ho		ot
		g 2 hours	, 00000		Greater than 8		

	Photocopy this questi area.	n) exposure levels and the 15-min on and complete it separately for	or each process type and work
<u>CBI</u>		3 0	
[_]	Process type	POLYLRETHANE Town PRO	DUCTION
	Work area	• • • • • • • • • • • • • • • • • • • •	/
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	A	<u>UK</u>	UK
	MARINE AND ADMINISTRATION OF THE PARTY OF TH		
		Contract of the contract of th	
			

[<u>_</u>]			
[_]			10
	Process type	POLYUPETHAND FORM	PRODUCTION
		•••••	
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	B	<u> </u>	$\mathcal{O}_{\mathcal{K}}$

]	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number Years Rec Maintair
	Personal breathing zone	N/A	_ 4/4	<u> N/4</u>	N/A	N/A	
	General work area (air)	_2_	GUTHUNUS	/ <u>\/</u> /A	4	<u> </u>	3 YEAR
	Wipe samples	<u>N/4</u>	1/2	<u> </u>	NA	NA	NA
	Adhesive patches	_N/A_	<u>/r</u>	n/A	- 1 / P	1/4	NA
	Blood samples	1/4	n/4	4. / A	NA	<u> 14/a</u>	N/A
	Urine samples	NA	<u> </u>	1 /	1. 2	MA	
	Respiratory samples	<u> </u>	A de	<u> </u>	<u> </u>	NA	N/A
	Allergy tests	1/1	1/1	1)/A	N/P	<u> </u>	
	Other (specify)		·			- /	
	Other (specify)						
	Other (specify)						
	¹ Use the following co A = Plant industrial B = Insurance carrie C = OSHA consultant D = Other (specify)	hygienis		takes the	monitorinį	g samples:	

specify the following information for each equipment type used. Averaging		cal Methodolog		Sample Type					
If you conduct personal and/or ambient air monitoring for the listed substance specify the following information for each equipment type used. I Equipment Type Detection Limit Manufacturer Time (hr) Mod E ONE form MAA Courses 1 Use the following codes to designate personal air monitoring equipment type A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)	TAPE.	T SONSTILL	MARLING THROUGH	6 <u>CONTINUOUS</u>	GENERAL WORK FOR				
If you conduct personal and/or ambient air monitoring for the listed substance specify the following information for each equipment type used. Bequipment Type Detection Limit Manufacturer Time (hr) Mode Time (hr) Mo									
specify the following information for each equipment type used. Averaging Equipment Type Detection Limit Manufacturer Time (hr) Mod Townson 1Use the following codes to designate personal air monitoring equipment type A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)									
specify the following information for each equipment type used. Averaging Equipment Type Detection Limit Manufacturer Time (hr) Mod Time (hr) Mod The contracts 1 Use the following codes to designate personal air monitoring equipment type A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)									
specify the following information for each equipment type used. Averaging Equipment Type Detection Limit Manufacturer Time (hr) Mod Time (hr) Mod The contracts 1 Use the following codes to designate personal air monitoring equipment type A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)						_			
specify the following information for each equipment type used. Averaging Equipment Type Detection Limit Manufacturer Time (hr) More Occurred 1 Use the following codes to designate personal air monitoring equipment type A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)						_			
specify the following information for each equipment type used. Averaging Equipment Type Detection Limit Manufacturer Time (hr) More Occurred 1 Use the following codes to designate personal air monitoring equipment type A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)	tanco	the listed su	air monitoring fo	al and/or ambient	If you conduct person	О Т			
Averaging Time (hr) Detection Limit ² Manufacturer Time (hr) Mod Time (tance,	used.	ach equipment type	information for e	specify the following	S			
Use the following codes to designate personal air monitoring equipment type A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)		Averaging		_		_			
Use the following codes to designate personal air monitoring equipment type A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)	odel Numb		· · · · · · · · · · · · · · · · · · ·			.]			
A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)	7100	CONTINUOUS	19124	0,005 ppmv	Ļ.				
A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)									
A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)		-		·					
A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)						-			
A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)									
A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)									
B = Detector tube C = Charcoal filtration tube with pump D = Other (specify)									
D = Other (specify)					B = Detector tube	В			
Use the following codes to designate ambient air monitoring equipment type				on tube with pump					
• • • • • • • • • • • • • • • • • • • •									
<pre>E = Stationary monitors located within work area F = Stationary monitors located within facility</pre>	E F								
G = Stationary monitors located at plant boundary			t boundary	rs located at plan	G = Stationary monite	G			
<pre>H = Mobile monitoring equipment (specify) I = Other (specify)</pre>	Τ.								
Use the following codes to designate detection limit units:									
A = ppm B = Fibers/cubic centimeter (f/cc)				imeter (f/çc)	B = Fibers/cubic cent	В			
$C = Micrograms/cubic meter (\mu/m3)$				neter (µ/m³)	C = Micrograms/cubic	С			

<u>I</u>]	Test Desc	ription		Fr (weekly, mont	equency hly, yearl	y, etc.
He	gerve Tesm		 	1 BARL	ļ-	
Res	ARMOR FIT T	T E575		Opon	HIRING	
,						
		***************************************	 			, , , , , , , , , , , , , , , , , , ,

. m	Describe the engineering co to the listed substance. P process type and work area.	hotocopy thi	you use to reduce or s question and compl	e eliminate wor lete it separa	rker exposi tely for ea
Used Year Upgraded Year Upgraded (Y/N) Upgraded (Y/	Process type	· Berus	certain From Per	DICTION	
Engineering Controls (Y/N) Installed (Y/N) Upgrad Ventilation: Local exhaust	Work area		••••••••	•	
Local exhaust General dilution Other (specify) Vessel emission controls Mechanical loading or packaging equipment Other (specify) Storage 74m, Overflow NA Too Perion 15 orwane 5 NA NA NA NA Other (specify) NA NA NA NA NA NA NA NA NA NA N	Engineering Controls				Year Upgrade
General dilution Other (specify) Vessel emission controls Mechanical loading or packaging equipment Other (specify) Storage Tank Overflow Make Make Make Make Make Make Make Make	Ventilation:				
General dilution Other (specify) Vessel emission controls Mechanical loading or packaging equipment Other (specify) Storage Tank Overflow Yes and Ala Market And Ala	Local exhaust	NA	THE PROVES 15 6	0-1 <u>0-20</u> p.S	The state of the s
Vessel emission controls We with the total loading or packaging equipment Other (specify) Stocker 74 M. OURFLOW Y 1287 NA NA	General dilution	MA	<u> </u>	/d	L.d.
Mechanical loading or packaging equipment Other (specify) Storage 74m, Outrelow Y 1287 NA NA	Other (specify)			ϵ'	
Mechanical loading or packaging equipment Other (specify) Storage 74m, Outrelow Y 1287 NA NA		yb 11.4	<u> 1/4</u>	L /t	14
packaging equipment	Vessel emission controls	<u> </u>	1 1 N 1 A	N /4	
STORGER TANK OVERFLOW Y 1287 H N/9		_1/=		10/4	10/1
	Other (specify)				,
		<u> </u>	<u> 1287</u>		N/9_

Work area	Process type	. <u>- Pour exer</u>	and than is) DNDSCF/300	
Engineering Controls (Y/N) Installed (Y/N) Upg Ventilation: Local exhaust General dilution Other (specify) Vessel emission controls Mechanical loading or packaging equipment Other (specify)				2	
Local exhaust General dilution Other (specify) Vessel emission controls Mechanical loading or packaging equipment Other (specify)	Engineering Controls				y. Upg
General dilution Other (specify) Vessel emission controls Mechanical loading or packaging equipment Other (specify)	Ventilation:				
Other (specify) Vessel emission controls Mechanical loading or packaging equipment Other (specify)	Local exhaust	V .	<u></u>	<u> </u>	
Vessel emission controls Mechanical loading or packaging equipment Other (specify)	General dilution	· ·	108 7	<u> </u>	
Wessel emission controls Mechanical loading or packaging equipment Other (specify)	Other (specify)				
Mechanical loading or packaging equipment Other (specify)	<u> </u>	<u>//</u>	16 12	<u> v/a</u>	
packaging equipment	Vessel emission controls			- N/A	
	Mechanical loading or packaging equipment	<u> </u>			
$\frac{N/\sigma}{2} = \frac{N/\sigma}{2} = N/$	Other (specify)			l	
		_N/+	A A	<u> </u>	

Process type	<u>NA</u>	11 STO	11770 UP Q	201 9 166 in
Work area	PRIL	K 7.7 REMR	TIOS PERILD	215 9 166 m
Equi	ipment or Process	Modification		Reduction in Wo Exposure Per Yea
	11/4			N/4
	erent .			

	in each work area	in order to reduce or elimina	ipment that your workers wear or use te their exposure to the listed e it separately for each process type
CBI	_	POLYURETHANE FORM	P
[_]			_
	Work area	• • • • • • • • • • • • • • • • • • • •	/
			Wear or Use
		Equipment Types	<u>(Y/N)</u>
		Respirators	
		Safety goggles/glasses	<u> </u>
		Face shields	<u></u> _
		Coveralls	
		Bib aprons	<u> </u>
		Chemical-resistant gloves	<u> </u>
		Other (specify)	
		CHEMICAL - RESISTANT BOOTS	<u> </u>

100

Mark (X) this box if you attach a continuation sheet.

9.14	in each work area	a in order to reduce or eliminat	ipment that your workers wear or us te their exposure to the listed e it separately for each process ty
CBI		£.	
[_]	Process type	Postorest Hours From Ro	OPLETTIN
	Work area	• • • • • • • • • • • • • • • • • • • •	2
		Equipment Types	Wear or Use (Y/N)
		Respirators	
		Safety goggles/glasses	y y
		Face shields	
		Coveralls	
		Bib aprons	
		Chemical-resistant gloves	Y
		Other (specify)	
		N/P	
		:	

9.15	process respira tested,	ters use respirators when we type, the work areas where tors used, the average usag and the type and frequency te it separately for each pr	e the respirat ge, whether or v of the fit t	ors are us not the i	sed, the type respirators w	e of Vere fit
<u>CBI</u>		partecina		_		
[_]	Process	type <u>locyuri</u>	THANK Ligar	RODU	TIDN	
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
	<u> </u>	MSA FORCED FOR	<u>B</u>	<u> </u>	<u>QL</u>	WHEN HIRED
	<u> </u>	MISA FORCED AIR		<u> </u>	<u>QL</u>	WHEN HIRED
						
	E = Oth Use the QL = Qu QT = Qu	ekly			t:	

9.19 <u>CBI</u>	Describe all of the work eliminate worker exposure authorized workers, mark monitoring practices, proquestion and complete it	to the listed s areas with warni vide worker train	ubstance (e.g ng signs, ins ning programs	., restrict e ure worker de , etc.). Pho	ntrance only to tection and tocopy this
[_]	Process type	YURETHAUE F	rri Bari Roma	TIDN	
	Work area			i	
	THE UNIDADINE BREAT	15 A RESTRICTS	n ACLESS ARE	St AND POSTE	n as such.
	LNEOADING OF RATE				
	EMPLOYUES ARE TRAINE	D IV Hantelye	701 BY 7	LE SUPPLIER	And FURTHER
	TRANSED IN HEALTH SAFE	W AND SPEC SE	3/2005 B 1 74	16 Toppers	ur Coversion,
.20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	sted substance. ss type and work YURLINAL	Photocopy thi area.	s question ar	lean up routing nd complete it
.20	leaks or spills of the lisseparately for each process Process type Selection with the lisseparately for each process. The lister is a selection with the list is a selection with the lister is a selection with the list	sted substance. ss type and work Yudin Hang	Photocopy thi area 1-2 Times	s question ar	More Than 4
.20	leaks or spills of the lisseparately for each process Process type	sted substance. ss type and work YURETHANK	Photocopy thi area.	s question ar	nd complete it More Than 4
.20	leaks or spills of the lisseparately for each process Process type Selection with the lisseparately for each process. The lister is a selection with the list is a selection with the lister is a selection with the list	sted substance. ss type and work Yudin Hand	Photocopy thi area 1-2 Times	s question ar	nd complete it More Than 4
.20	leaks or spills of the lisseparately for each process Process type Solution Work area	sted substance. ss type and work Yudin Hand	Photocopy thi area 1-2 Times	s question ar	More Than 4
.20	leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming	sted substance. ss type and work Yudin Hand	Photocopy thi area 1-2 Times	s question ar	More Than 4
.20	leaks or spills of the lisseparately for each process Process type For the lisseparately for each process. Work area	sted substance. ss type and work Yudin Hand	Photocopy thi area 1-2 Times	s question ar	More Than 4
.20	leaks or spills of the lisseparately for each process Process type For the lisseparately for each process. Work area	sted substance. ss type and work Yudin Hand	Photocopy thi area 1-2 Times	s question ar	More Than 4
. 20	leaks or spills of the lisseparately for each process Process type For the lisseparately for each process. Work area	sted substance. ss type and work Yudin Hand	Photocopy thi area 1-2 Times	s question ar	More Than 4
.20	leaks or spills of the lisseparately for each process Process type For the lisseparately for each process. Work area	sted substance. ss type and work Yudin Hand	Photocopy thi area 1-2 Times	s question ar	More Than Times Per Da

9.19 CBI	eliminate worker exposure authorized workers, mark a monitoring practices, pro- question and complete it	to the listed so areas with warning vide worker traing separately for ea	ubstance (e.g ng signs, inst ning programs nch process t	., restrict enure worker de , etc.). Pho ype and work a	ntrance only to tection and tocopy this
[_]	Process type	r LYURETHANE TO	tan Penner	na g	
	Work area				
	701 pump CALIBRATI	all is fire English	m At a tra	00 a. 715 800	1110 110
	TRYINED IN HANDLING T				
	SAFETY, AND SPILL REST				
	15 A PASTRICTON ACCUSS	AREA AND BON	7050 705	howitars A	OF ALMARS
	3 :	,			
.20	Indicate (X) how often you leaks or spills of the lis separately for each process Process type	perform each hosted substance. ss type and work	Photocopy thi	s question ar	
.20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	perform each hosted substance. ss type and work LECTHAN FOR	Photocopy thi area. Ocopy Thi	3-4 Times	More Than 4
.20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	perform each hosted substance. ss type and work	Photocopy thi area.	s question ar	More Than 4
. 20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	Less Than Once Per Day	Photocopy this area. 1-2 Times Per Day	3-4 Times	More Than 4
.20	Indicate (X) how often you leaks or spills of the lis separately for each process. Process type	perform each hosted substance. ss type and work LECTHAN FOR	Photocopy this area. 1-2 Times Per Day	3-4 Times	nd complete it
.20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	Less Than Once Per Day	Photocopy this area. 1-2 Times Per Day	3-4 Times	More Than 4
.20	Indicate (X) how often you leaks or spills of the lis separately for each process. Process type	Less Than Once Per Day	Photocopy this area. 1-2 Times Per Day	3-4 Times	More Than 4
.20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	Less Than Once Per Day	Photocopy this area. 1-2 Times Per Day	3-4 Times	More Than 4
.20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	Less Than Once Per Day	Photocopy this area. 1-2 Times Per Day	3-4 Times	More Than 4
.20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	Less Than Once Per Day	Photocopy this area. 1-2 Times Per Day	3-4 Times	More Than 4
. 20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	Less Than Once Per Day	Photocopy this area. 1-2 Times Per Day	3-4 Times	More Than 4

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes
	No 2
	If yes, where are copies of the plan maintained? Safett Almandes' Diffice and Work Acras
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist 1
	Insurance carrier 2
	OSHA consultant 3
	Other (specify) 4
[_]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART	A GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
<u>CBI</u>	
[_]	Industrial area1
	Urban area 2
	Residential area 3
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway 7
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Within 1 mile of a non-navigable waterway 9
	Other (specify)10

	Specify the exact location of you is located) in terms of latitude (UTM) coordinates.	and longitude or Uni	iversal Transvers	se Mercader
	Latitude	•••••	3? • /	5
	Longitude	•••••	<u>90 ° 3</u>	3 <i>O</i>
	UTM coordinates Zone	, North	ning, Ea	asting
10.03	If you monitor meteorological con the following information.	ditions in the vicin	ity of your faci	lity, provide
	Average annual precipitation	• • • • • • • • • • • • • • • • • • • •		inches/ye
	Predominant wind direction			
10.04	Indicate the depth to groundwater	below your facility	•	
		•		
	Depth to groundwater	• • • • • • • • • • • • • • • • • • • •		meters
	Depth to groundwater	•••••		meters
10.05 CBI	For each on-site activity listed, listed substance to the environment Y, N, and NA.)	indicate (Y/N/NA) a	ll routine relea	ses of the
<u>CBI</u>	For each on-site activity listed, listed substance to the environmer Y, N, and NA.)	indicate (Y/N/NA) a nt. (Refer to the in	ll routine releanstructions for	ses of the a definition o
<u>CBI</u>	For each on-site activity listed, listed substance to the environmen	indicate (Y/N/NA) ant. (Refer to the integral Env.	ll routine releanstructions for ironmental Relea	ses of the a definition of se
<u>CBI</u>	For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity	indicate (Y/N/NA) ant. (Refer to the integral Env.	ll routine releanstructions for	ses of the a definition o
<u>CBI</u>	For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing	indicate (Y/N/NA) ant. (Refer to the integral Env.	ll routine releanstructions for ironmental Relea	ses of the a definition of se Land
<u>CBI</u>	For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing	indicate (Y/N/NA) ant. (Refer to the integral Env.	ll routine releanstructions for ironmental Relea	ses of the a definition of se Land
<u>CBI</u>	For each on-site activity listed, listed substance to the environmer Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	indicate (Y/N/NA) ant. (Refer to the integral Env.	ll routine releanstructions for ironmental Relea	ses of the a definition of the se Land AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
<u>CBI</u>	For each on-site activity listed, listed substance to the environmer Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	indicate (Y/N/NA) ant. (Refer to the integral Env.	ll routine releanstructions for ironmental Relea	ses of the a definition of se Land AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Quantity discharged to the air	± %
Quantity managed as other waste in on-site treatment, storage, or disposal units kg/yr Quantity managed as other waste in off-site	± %
Quantity managed as other waste in off-site	
Quantity managed as other waste in off-site treatment, storage, or disposal units kg/yr	<u>+</u> %

BI	-	ately for each process type.	
]	Process type	POLYUKETHANG FORM PRODUCTION	
	Stream ID Code	Control Technology	Percent Efficienc
	<i>70,7</i> Q	CALINET TO PAR HORD WILLIAMS	UK
		NELDER FITTINGS AND YOUF SCALLESS	
		FUMPS TO PROBER RELEASES	
	76, 74, 72, 74, 78,	DPTIMIZED STOUCHEDNETRY AND BELLUERY	UK
	70, 7W, 7Y	RATES MINIMITES EMISSIONS IN THESE	
		EXPLOST STREAMS	
	Parameter Principles		

FOR PORT AREA EXPANSE LINE ! PH OLEN EXPRESE LINE ! DEPORT EXPANSE LINE! PR FOREING AREA EXPANSE LINE ? PU OLEN EXPANSE LINE ? PW PETICUL DIMANS LINE ? PY CRUSTER EXPANSE LINE ?	THE OLEN EXHAUST LINE ! THE CRUSHER EXHAUST LINE! THE PROPERT AREA EXHAUST LINE ? THE OLEN EXHAUST LINE ? THE OLEN EXHAUST LINE ? THE OLEN EXHAUST LINE ?	
TENDER EXAMS LINE! CRUSHER EXHAST LINE! TR FRURING AREA EXHAST LINE 2 TU OVEN EXHAST LINE 2 TW DEAL EXHALT LINE 2	PENDER EXPLOSE LINE ! TE CRUSHER EXPLOSE LINE ! TR PRINCE AREA EXPLOSE LINE 2 TU CLEN EXPLOSE LINE 2 TW PENDER EXPLOSE LINE 2	POURING AREA EXPENDS T LINE 1
The Crusing AREA EXHAUST LINE I TR PRIRING AREA EXHAUST LINE 2 THE PROPERTY OF THE PROPERTY	The Crusher Express Live 1 TR Principle dress express live 2 TU CLEN EXPRESS LIME 2 TW Deman Express limes	OFFN DX-8857 2008/
7R FOURING AREA EXPOST SINE 2 7U OVEN EXPANT LINE 2 7W DEMOND EXPANT 2 ME 2	7R FORMA AREA EXMINIST ENE 2 7U OVEN EXPANS LINE 2 7W DEMONDO CHARLES LINE 2	DELOGED EXHAUST LINE!
70 Oren exages from 2 7W Remain English 2 mes 2	70 OVEN EXPLOSE LINE 2 7W DEDWEN DINANT LINE 2	CRUSHER EXPRIST LINET
7W PENNEU DAGUS 2MED	7W PENNEN ENGER	Friend FRED EXPOST SINE 2
		Organist GINE 2
PY CRUSTIER ENGLOST LINE 2	PY CRUSTER EXPRISE LINE 2	PENNEN ENGLYS EMER
		CRUSHER ENHAUST LINE 2

 Ξ

¹Use the following codes to designate physical state at the point of release: G = Gas; V = Vapor; P = Particulate; A = Aerosol; O = Other (specify)

²Frequency of emission at any level of emission

³Duration of emission at any level of emission

 $^{^4}$ Average Emission Factor — Provide estimated (\pm 25 percent) emission factor (kg of emission per kg of production of listed substance)

10.11 Stack Parameters -- Identify the stack parameters for each Point Source ID Code identified in question 10.09 by completing the following table. CBI [_] Stack Point Inner Emission Source Diameter Exhaust Exit Building₂ ID Stack Building Height(m) Vent Type³ (at outlet) Temperature Velocity Code Height(m) (°C) (m/sec) (m) Width(m) 24 76 16:2 7/1 20,2 -_Z-19. [24 149 20 78 140 2/1/2 30 11 -:40 74 3Y 10 ¹Height of attached or adjacent building ²Width of attached or adjacent building ³Use the following codes to designate vent type: H = Horizontal V = Vertical

Mark (X) this box if you attach a continuation sheet.

an -	If the listed substance is emitted distribution for each Point Source Photocopy this question and comple	ID Code identified in question 10.09. te it separately for each emission point source
CBI		<i>)</i>
[_]	Point source ID code	<u>N</u> /2
	Size Range (microns)	Mass Fraction (% \pm % precision)
	< 1	nass reaction (% 1 % precession)
	≥ 1 to < 10	
	_ ≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%

10.13 <u>CBI</u>	Equipment Leaks Complet types listed which are exp according to the specified the component. Do this fo residual treatment block f not exposed to the listed process, give an overall pexposed to the listed subs for each process type.	osed to the weight percer each procestlow diagram(substance. ercentage of	listed su ent of th ss type i s). Do n If this i time per	bstance a e listed dentified ot includ s a batch year tha	nd which substance in your e equipme or inter t the pro	are in se passing process b nt types mittently cess type	rvice through lock or that are operated is						
[_]	Process type												
	Percentage of time per year type	Percentage of time per year that the listed substance is exposed to this process type											
			of Compos of Liste	nents in : d Substan	Service by ce in Pro	y Weight cess Stre	am						
	Equipment Type	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99						
	Pump seals ¹	7											
	Packed	NK		N/a	1./2	n/1	3						
	Mechanical	1./4	<u></u>	NA	1/4	14/3	<i> X</i> ₹						
	Double mechanical ²	1		12/4	21/4	· /a	.y3						
	Compressor seals ¹	1.1.1.1.	12/4	4	A/1		No						
	Flanges	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · ·	1 .4	17.4	74/4	/2						
	Valves												
	Gas ³	NÁ	47 Å	n; 1	13.13	n//4	n la						
	Liquid	14/4	1/4	. 4	/ A	**/a	12						
	Pressure relief devices ⁴ (Gas or vapor only)	<u> </u>	4	77 1 t	1/2	$\frac{-2/3}{\sqrt{3}}$							
	Sample connections												
	Gas	<u>/\/4</u>	<u>_ /: 4_</u>	1 4	\mathcal{M}_1	A 4	A: 1						
	Liquid			4 4	$-\frac{1}{2}$	1/4	ϵ						
	Open-ended lines ⁵ (e.g., purge, vent)												
	Gas	je, A	<u>. /4.</u>	<u> </u>	<u> </u>		18						
	Liquid	- 1 /a	4	<u> </u>			1, 4						
	List the number of pump and compressors	d compressor	seals, r	ather tha	n the num	ber of pu	mps or						
0.13	continued on next page												

10.13	(continued)			
	² If double mechanical seal greater than the pump stu will detect failure of th with a "B" and/or an "S",	uffing box pressure a ne seal system, the l	and/or equipped wi	th a sensor (S) that
	³ Conditions existing in th	ne valve during norma	al operation	
	⁴ Report all pressure relie control devices			equipped with
	⁵ Lines closed during norma operations	al operation that wou	ıld be used during	maintenance
10.14 <u>CBI</u>	Pressure Relief Devices wi pressure relief devices id devices in service are con enter "None" under column	lentified in 10.13 to trolled. If a press	indicate which p	ressure relief
	a. Number of	b. Percent Chemical	c.	d. Estimated
	Pressure Relief Devices	in Vessel	Control Device	
	2	1.37	Ruptury Disk	10%

ŕ				
				
		-		
	Refer to the table in quest heading entitled "Number of Substance" (e.g., <5%, 5-10	f Components in Serv:	d the percent rang ice by Weight Perc	ge given under the ent of Listed
	The EPA assigns a control e with rupture discs under no efficiency of 98 percent fo conditions	ormal operating cond:	itions. The EPA a	ssigns a control
[<u> </u>]	ark (X) this box if you att	ach a continuation s	sheet.	

_]	Process type		• • • • • • • • • • • • • • • • • • • •	But ins To	ione Favor /	2002719A
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at /30/205 Inches from Source	Detection Device		Repairs Initiated (days after detection)	Repairs Completed (days afte initiated)
	Pump seals					
	Packed	Q 005 ovm	PEN)	CONTINUOUS	ImmEDIATELY	ASAP
	Mechanical	N/A	4/4	- 1/A	NA	a./A
	Double mechanical	N/A	*/A	- J./A	\(\frac{1}{\lambda}\)	~ /A
	Compressor seals	,0/4	N/4	2/4	N/A	NA
	Flanges	0.025 N/m	F/21, 0	Continuous	Jameslovely	ASAP
	Valves		7			
	Gas	NA	- 11/4 - 1	//		21/A
	Liquid	0.205 ppm	cpm 0	CONTINUOUS	-maypiasin,	ASHP
	Pressure relief devices (gas or vapor only)	p.//a	fu _A	$\Lambda^{\frac{1}{2}}$	NÀ	
	Sample connections	1	,			
	Gas	MA	<u> </u>	<u>^</u>	<u>~N/B</u>	N/A
	Liquid	9.005 ppm	17 (A) 1 (A)	CONTRADOUS	Inamiarour	ASAP
	Open-ended lines	4		,		,
	Gas	<u> </u>	<u> </u>	<u> </u>	<u> </u>	NA
	Liquid	N/4		$\Lambda/4$	<u></u>	NLA

			_	(s). Vessel	Vessel	Vessel		Operat- ing	•				
Vessel Type ¹	Floating Roof Seals ²	Composition of Stored Materials ³	Throughput (liters per year)	Filling Rate (gpm)	Filling Duration (min)	Inner Diameter (m)	Vessel Height (m)	Vessel	Vessel Emission Controls	Design Flow Rate	Vent Diameter (cm)	Control Efficiency (%)	Basis for Estima
	_N/s	100 (100)	O. 6 million	43,8	420	3.5	5.6	<u>51,100</u>	Nove	N/A	5,/	_11/a	NI
=	<u> </u>	100 (100)	Och million	43.8	426_	3,5	5,6	5,100	Nows	18/18	_5,/	<u> </u>	<u> </u>

				· 									
												-	
F =	= Fixed re = Contact = Nonconta	oof internal flo	floating roo	£		MS1 MS2 MS21	= Mec = Sho R = Rim	hanical e-mounte -mounte	shoe, pri ed seconda d, seconda	mary ry ry	te floatin	g roof seal: primary	:
EFR = P = H = U =	= Pressur = Horizon = Undergro	e vessel (in tal ound	dicate pressu		-	LM2 LMW VM1 VM2 VMW	= Rim = Wea = Vap = Rim = Wea	-mounted ther shi or mounted -mounted ther shi	l shield ield ted resili l secondar ield	ent fil y	led seal,	primary	
EFR = P = H = U = SINDING	PressureHorizonUndergreeate weigh	e vessel (in tal ound t percent of			-	LM2 LMW VM1 VM2 VMW	= Rim = Wea = Vap = Rim = Wea	-mounted ther shi or mounted -mounted ther shi	l shield ield ted resili l secondar ield	ent fil y	led seal,	primary	
FFR = P = H = U = SINGLE	= Pressure = Horizon = Undergre ate weigh than flo	e vessel (in tal ound t percent of ating roofs	dicate pressu	ubstance	. Include	IM2 IMW VM1 VM2 VMW	= Rim = Wea = Vap = Rim = Wea	mounter shi or mounter mounter ther shi ile orga	d shield ield ted resili d secondar ield anic conte	ent fil y nt in p	led seal,	primary	
FFR = P = H = U = S Indica Other 5 Gas/va	= Pressure = Horizon = Undergreate weigh ate weigh than flow	e vessel (in tal ound t percent of ating roofs rate the em	dicate pressu	ubstance l device	. Include	IM2 IMW VM1 VM2 VMW the total	= Rim = Wea = Vap = Rim = Wea l volat	-mounter shi or mount -mounter ther shi ile orga- pecify:	d shield ield ted resili d secondar ield anic conte	ent fil y nt in p	led seal,	primary	

was stop list all	ped. If there releases.	Were more than	n six releases,	attach a continu	ation sheet and
Release		Date tarted	Time (am/pm)	Date <u>Stopped</u>	Time (am/pm)
1		A / A	11/4	1.0	12/9
2	-	·····	angeneral data data da		
3					
4					
5					
6					
Release 1	(km/hr)	Direction	(%)	<u>(°C)</u>	(Y/N)
					(1714)
2	-				
3				****	***
3 4					
4					

APPENINTY	т.	list	۸f	Continuation	Shoots
ALLENDIX	1:	LIST	OI	Continuation	Sheers

Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

Question Number (1)	Continuation Sheet Page Numbers (2)
7.04 PAGE NO 45	LADDITHENOL PACE
7.05 FAGE No. 48	3 Applituant Poces
7.06 Page No.47	9 ADDITIENAL RAGES
9:06 PAGE No. 93	LADDITIONEL POLE
7.07 Pass No. 94	1 ADDITIONAL PACE
9.12 PAGE No. 98	LADOITHNEL PAGE
9,14 PACE No. 150	LADDITHMEC PAGE
9,19 + 9 20 PAGE NO. 105	LADDITHMAL PAGE
7.011-03 FLOW DIAGRAMS INSERTED	
[_] Mark (X) this box if you attach a continuation sheet.	
i	

MATERIAL SAFETY | Corporation Chemicals Division Cherry Hill Road, Paralogony, New Jersey 87054, (201) 318-3000

BASF

DATA SHEET

HMIS: HA KT RT

PRODUCT NUM	BER: ESSH21 LUPRAMATE	* T80-Typa 1		المراجعة والمراجعة والمراج
		ileann. — incom		*Registered Trademark
TRADE NAME:	LUPRANATE* T80-Type 1			Tropies to tredemark
	E: Toluene Difsocyanata			The same of the sa
The second secon	TDI: Tolylane Ditsocyana		MULA:	CH ₃ C ₄ H ₃ (NCO) ;
CHEMICAL FAMI	LY: Anomatic Isocyanates			MOL. WGT.: 174.18
	SECTION	U - INGF	IEDIEN	ns
C	OMPONENT	CAS NO.	*	FEL/TLV - SOURCE
LUPRANATE* T80- Contains:	Type 1		100	Not established
2,4 Toluene Dif	Socyanate	584-84- <u>B</u>	80	0.005 ppm, ACGIH 0.02 ppm STEL, ACGIH
2,6 Toluene Diisocyanatu		\$1-08-7	20	0.02 ppm Celling, DSHA
All Diapohents	Sect. 313: Listed. are in TSCA inventory.	A STATE OF THE PARTY OF THE PAR	:AL D	
THE RESERVE THE PERSON NAMED IN COLUMN 1	DINT #750 mm Hg: 484*F/	N/A	PH: N/A	,
STATE OF THE PERSON NAMED IN COLUMN 2 IN C	Hg #20 C: 0.025	***************************************	Vapor D	Mensity (Air+1): 6.0
the same of the sa	OR BULK DENSITY: 1.22		Freezin	g Point: 51.8-53,8'F
	RR: Water Pascis			
Martin San State of the San State of San		DR: Pungent		INTENSITY: Strong
	(CO 1/- FIRE AN	Commence of the state of the st	SION 1	MAZARD DATA
	METICO): 270°F TAG C	pen Cup		AUTOIGNITION TEMP: >520*F
XTINGUISHING	TS 7% AZR (% BY WOL)	IJISER: O. EX		LIPPER: O RV
EDIUM	Use water fog, form o	r CO2 extingu	fahtng w	edia.
Pecial Irefighting Rocedures	Personnel engaged in protected egainst mit 1800yanate wapons. F	Lager bickies	function my	
NUSUAL FIRE ND EXPLOSION AZARDS	Avoid water contaminates; carbon dioxide	turnout ge	AP.	
	- EMERGENCY T			/IBER
CHEMTREC 800-4	24-9300 201-	316-3000	d. W. Beleas Turance	
THIS	NUMBER TS AVAILAR T PAYS		KENDS, AN	D HOLIDAYS

PRODUCT NUMBER: #85821

LUPRANATE + TEO-Type 1

SECTION V - HEALTH DATA

TOXICOLOGICAL TEST DATA:

LUPRANATE* T80-Type 1

2.4 Toluene Difsocyanate

Rat. Oral LD50 Mouse, Inhalation LC50 RESULT:

Severe eye and skin irritant, sensitizer 5.8 g/kg. 10 ppm/4H

EFFECTS OF OVEREXPOSURE

The primary routes of exposure to this material are sys or skin contact, and

Inhalation of the vapors causes severe irritation to lungs, and pulmonary edema can occur after a serious vapor exposure. Liquid contact causes serious skin and mys burns. Pulmonary sensitization can occur in some individuals leading to asthma-type spasms of the bronchist tubes and difficulty in breathing. Preclude from exposure those individuals having a history of respiratory illness, asthmatic conditions, are damage or TDI sensitization. Recent studies indicate that overexposure may be associated with chronic lung impairment. In a National Toxicology Frogram (NTP) study, TDI was carcinogenic when given orally to rate and mice at maximum tolerated doses. This was not carcinogenic to rate in a two-year inhalation study. Based on the results of the oral study, TDI was included in the NTP Annual Report on Carcinogens.

FIRST AID PROCEDURES:

Existing medical conditions aggravated by exposure to this material: Pulmonary disorders.

Eyes-Immediately Wash eyes with running water for 15 minutes. Get immediate medical attention.

Skin-Wash affected areas with water while removing contaminated clothing. Get immediate medical attention. Launder

contaminated clothing before reuse.
Ingestion-If swallowed, DO NOT INDUCE VOMITING. Dilute with water or milk and get immediate medical attention. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Inhalstion-Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

SECTION VI - REACTIVITY DATA

STABILITY:

Stable.

Avoid temperatures >40°C for extended periods of time. CONDITIONS TO AVOID:

CHEMICAL INCOMPATIBILITY:

Water, basic compounds, alcohols, scids, amines.

HAZARDOUS DECOMPOSITION PRODUCTS: TOI Vapors, NOX, CO and HCN.

HAZARDOUS POLYMERIZATION:

May popur. Avoid contamination with moisture

and other products that react with isocyanates.

CONDITIONS TO AVOID:

CORROSIVE TO METAL

No

OXIDIZER:

SECTION VII - SPECIAL PROTECTION

RESPIRATORY PROTECTION:
NIDSH/MSHA approved respiratory equipment for transfer operations or escape.
Self-contained breathing apparatus if the P.E.L. is exceeded, or in confined areas or if a leak occurs.

EYE PROTECTION:

Wear fitted gogglas or face shield and safety glasses.

PROTECTIVE CLOTHING: Rubbar gloves, coveralls, boots and rubber apron which must be classed after each use. Hardhat for head protection.

VENTILATION:

Use local exhaust whorever vapors are generated.

OTHER:

Valided vapors should be scrubbed through Maintain work area below F.E.L. carbon filters or other similarly effective medias.

PRODUCT NUMBER: 885821 LUPRANATE* T80-1	Type 1		
SECTION VIII - ENVII	RONT	MENTAL DA	VTA
ENVIRONMENTAL TOXICITY DATA:	التناشيان		er van geren er gegen gegen en de gegen bedeer en de gegen.
Aquatic toxicity rating: TLm 88: 10) ppm -	1 ppm.	
•			
SPILL AND LEAK PROCEDURES:		فيلسؤوه سيقيف بمسكولي والموجد مطعود فينسط بروجيها	
LUPRANATE* T80 is a RCRA-regulated pr evacuate all not involved in the class absorbent and containerize into open a mixture of 80% water, 8% concentrate	inup. top dr	For minor spill tims. Decontami onis and 2% det	s, absorb with nate spill area with ergent.
HAZARDOUS SUBSTANCE SUPERFUND: Yes		RQ (lbs):	100
WASTE DISPOSAL METHOD:		A.	
Dispose of waste in a RCRA-permitted Incinerate or landfill in a RCRA-perm	facili Mitted	ty. facility.	
HAZARDOUS WASTE 40CFR261: Yes		HAZARDOUS V	VASTE NUMBER: U 223
CONTAINER DISPOSAL:		,	
Containers should be neutralized with containing less than it of resigue, a empty, they must be disposed as a haz	Way De	landfilled. If	containers are not
SECTION IX - SHII	PPING	G DATA	
D.O.T. PROPER SHIPPING NAME (49CFR172.101-	102)	HAZARDOUS S	UBSTANCE
Toluene Diisodyanate		49CFR CERCL	A LIST)
•		Yes	
		REPORTABLE (QUANTITY (RQ) 100 16
D.O.T. HAZARD CLASSIFICATION (CFR 172.101-10 PRIMARY Poison &)2)	SECONDARY	
D.O.T. LABELS REQUIRED (49CFR172.101-102)	ln o r	. PLACARDS	POISON CONSTITUENT
D.O.1. EADLLS REQUIRES (450 PR 1/2.101-102)	REGL	JIHED (CFR 172.6	04) (49CFR 172.203(K))
Poison		K ONLY	TDI
	Pol	son-2078	
BILL OF LADING DESCRIPTION	J	<u></u>	
Toluene Diizocysnate-Poison B-UR 2 *** Placarded: PDISON ***	078 RQ	100 lbs.	
CC NO. 180	7, D. MAR	UN/NA CODE2	078
DATE PREPARED: 4 / 17 / 68		UPDATED:	8 / 18 / 88

WHILE BASE CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS OF THE DATE HEREOF, BASE CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION, AND VERIFICATION.

SECTION X - PRODUCT LABEL

LUPRANATE # T80-Type 1

DANGER: POISON
HARMFUL IF INHALED.
CONTACT WITH EYES AND SKIN RESULTS IN SERIOUS BURNS, INHALATION OF VAPORS
GAUSES SEVERE IRRITATION TO LUNGS, PULMONARY EDEMA MAY DCCUR, PULMONARY SENSITIZATION CAN OCCUR IN SOME INDIVIDUALS, LEADING TO ASTHMA-TYPE SPASMS OF THE
BRONCHIAL TUBES AND DIFFICULTY IN BREATHING, INDIVIDUALS WITH A HISTORY OF
RESPIRATORY ILLNESS, ASTHMATIC CONDITIONS, EYE DAMAGE OR TOI SENSITIZATION
SHOULD HOT SE EXPOSED TO THIS PRODUCT.
IN AN HTP STUDY, TOI WAS CARCINOGENIC TO RODENTS DIVEN HIGH GRAL DOSES
AND IS INCLUDED IN THE HTP ANNUAL REPORT ON CARCINOGENS, TOI WAS NOT
CARCINOGENIC TO RATS IN A TWO-YEAR INHALATION STUDY.

Use with local exhaust. Wear an approved respirator or self-contained breathing apparatus, fitted goggles or face shield and safety glasses, rubber gloves, coveralls, boots, apron and other protective clothing as necessary to prevent contact.

FIRST AID:

Eyes-Immediately wash eyes with running water for 15 minutes. Get immediate medical attention.

Skin-Wash affected areas with water while removing contaminated clothing. Get immediate medical attention. Launder contaminated clothing before

contaminated clothing before reuse.

Ingestion-If swallowed, DO NOT INDUCE VOMITING. Dilute with water or milk and get immediate medical attention. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Inhelation-Move to frash air. Aid in breathing, if necessary, and get immediate medical attention.

HANDLING AND STORAGE: Keep containers closed and store in a well-ventilated place. Dutage of container should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture. Contamination by moisture or basic compounds can cause dangerous pressure buildup in closed container. Store Store above 80 F to prevent freezing and isomer separation. If solidified, do not exceed 95 F while thaving to prevent discoloration. Mix before using.

IN CASE OF SPILLS OR LEAKS: Material is a RCRA-regulated product. Spills should be contained, absorbed and placed in suitable containers for disposal in a RCRA-licensed facility.

IN CASE OF FIRE: Use water fog, foam or CO2 extinguishing media. Firefighters should be equipped with self-contained breathing apparatus and turnout gear for protection against TDI vapors and toxic decomposition

EMPTY CONTAINERS: All labeled precautions must be obsaived when handling, storing and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and recorditioned.

DISPOSAL: Spilled material, unused contents and sampty containers must be disposed of in accordance with local, state and faderal regulations. Refer to our Material Safety Data Sheat for specific disposal instructions.

IN CASE OF CHEMICAL EMERGENCY: Call CHEMTREC day or night for assistance and information concurring spilled material, fire, exposure and other chemical accidents 800-424-8900.

ATTENTION: This product is sold solely for use by industrial institutions. Refer to our Technical Bulletin and Material Safety Date Sheet regarding safety, usage, applications, hazards, procedures and disposal of this product. Consult your supervisor for additional information.

1

FOR INDUSTRY USE ONLY, CAS No.: 584-84-8; \$1-08-7. Proper Shipping Name: Toluene Disocyanate, Poison B - UN 2078 RQ Made in USA. Polymers 0488

FEDERAL

5 STANDARD 10 In all the second business day

AIRBILL
USE THIS AIRBILL FOR DOMESTIC SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

PACKAGE TRACKING NUMBER 8265158581

82451/5858n

11

12 MOLIDAY DELIVERY (If offered)
(Extra charge)

	Date 8/2/89	tions of		RECIPIENT	S COPY	6/1
From (Your Name) Please Print MARY VALDBRRAMA Company Street Address City	(314) Department/Fil	Your Phone Number (Very Important) (314) 279—1002 Department/Floor No.		Company CIMENT PROCESSING CENTER Deport Proces		S Phone Number (Very Important) partment/Floor No.
PAYMENT Bill Sender Bill Recipient's Cash		Bill Credit Car	W. C. C.	IF HOLD FOR PICK-UP, Print FED. Street Address City S Emp. No. Date	X Address Here	20460 equired
SERVICES 1 PRIORITY 1 Overnight Delivery 6 OVERNIGHT DELIVER* 2 COURIER-PAK 7 OVERNIGHT ENVELOPE* 3 OVERNIGHT 8 OVERNIGHT 9 OVERNIGHT TUBE 5 STANDARD 10 All Delivery not later than	DELIVERY AND SPECIAL HANDLING 1	LBS LBS	Il Stop 5	Cash Received Return Shipment Third Party Chg. To Del. Street Address City State Received By:	deliver this ship-	PART #111800 PART #111800 PART #111800 PART #111800 PART #111800 PART #11800 P

Date/Time for FEDEX/Use

Signature: